



Wednesday, November 09, 2016

Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Project ID: NOVEMBER NPDES
Sample ID#s: BV74326

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 09, 2016

FOR: Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Sample Information

Matrix: WASTE WATER
Location Code: BARNHARD
Rush Request: Standard
P.O.#: G8228

Custody Information

Collected by: KG
Received by: B
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
11/02/16	7:00
11/02/16	18:30

Laboratory Data

SDG ID: GBV74326
Phoenix ID: BV74326

Project ID: NOVEMBER NPDES
Client ID: EFFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Copper	0.019	0.005	mg/L	1	11/04/16	TH	E200.7
B.O.D./5 day	15	2.6	mg/L	6	11/03/16 05:00	KDB/RM	SM5210B-01
C.O.D.	277	20	mg/L	2	11/04/16	MSF	SM5220D-97
Ammonia as Nitrogen	2.19	0.25	mg/L	5	11/08/16	WHM	E350.1
Nitrite-N	0.084	0.010	mg/L	1	11/03/16 18:27	GD	E353.2
Nitrate-N	1.81	0.02	mg/L	1	11/03/16 18:27	GD	E353.2
Phenolics	< 0.015	0.015	mg/L	1	11/03/16	BS	E420.4
Nitrogen Tot Kjeldahl	14.3	0.50	mg/L	5	11/08/16	WHM	E351.1
Phosphorus, as P	4.39	0.10	mg/L	10	11/07/16	JR	SM4500PE-99
Total Suspended Solids	50	10	mg/L	2	11/04/16	KH	SM2540D-97
Total Metals Digestion	Completed				11/03/16	AG	

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

November 09, 2016

Reviewed and Released by: Deb Lawrie, Project Manager



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QA/QC Report

November 09, 2016

QA/QC Data

SDG I.D.: GBV74326

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 365493 (mg/L), QC Sample No: BV74270 (BV74326)													
<u>ICP Metals - Aqueous</u>													
Copper	BRL	0.005	0.005	<0.005	NC	95.8			103			75 - 125	20



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QA/QC Report

November 09, 2016

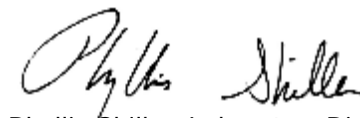
QA/QC Data

SDG I.D.: GBV74326

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 365381 (mg/L), QC Sample No: BV72902 (BV74326)													
Phenolics	BRL	0.015	<0.015	<0.015	NC	108			99.5			85 - 115	20
QA/QC Batch 365916 (mg/L), QC Sample No: BV73390 (BV74326)													
Ammonia as Nitrogen	BRL	0.05	<0.05	<0.05	NC	98.3			98.5			85 - 115	20
Nitrogen Tot Kjeldahl	BRL	0.10	0.17	0.17	NC	94.8			94.0			85 - 115	20
QA/QC Batch 365569 (mg/L), QC Sample No: BV74166 (BV74326)													
Total Suspended Solids	BRL	5.0	<5.0	<5.0	NC	92.0						85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 365557 (mg/L), QC Sample No: BV74192 (BV74326)													
C.O.D.	BRL	10	<10	<10	NC	97.5			101			85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 365375 (mg/L), QC Sample No: BV74354 (BV74326)													
B.O.D./5 day	BRL	2.0	<4.0	<4.0	NC	102			86.8			70 - 130	20
QA/QC Batch 365515 (mg/L), QC Sample No: BV74457 (BV74326)													
Nitrate-N	BRL	0.02	<0.02	<0.02	NC	101			101			85 - 115	20
Nitrite-N	BRL	0.01	<0.010	<0.01	NC	95.2			95.2			85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 365811 (mg/L), QC Sample No: BV74636 (BV74326)													
Phosphorus, as P	BRL	0.01	0.081	0.08	1.20	111			94.7			85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference


Phyllis Shiller, Laboratory Director
November 09, 2016

Sample Criteria Exceedances Report
GBV74326 - BARNHARD

Criteria: None
State: MA

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

